

ABSTRACT OF THE DISCLOSURE

Monolithic circuit chips are disclosed which are particularly adapted for use with barcode reading, video and photographic systems. The monolithic circuit chip can include a sensor array, digitizer and decoder. The monolithic circuit chip can
5 alternatively include an imager circuit, radio frequency circuit and memory. The memory can be one of ferroelectric random access memory (FRAM), E²PROM, or Flash memory. The monolithic circuit chip can be formed using complementary metal oxide semiconductor (CMOS) techniques.